

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P249789

Luminaire Tested: **LD8B175D010 ER8B175827 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175827 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15095.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

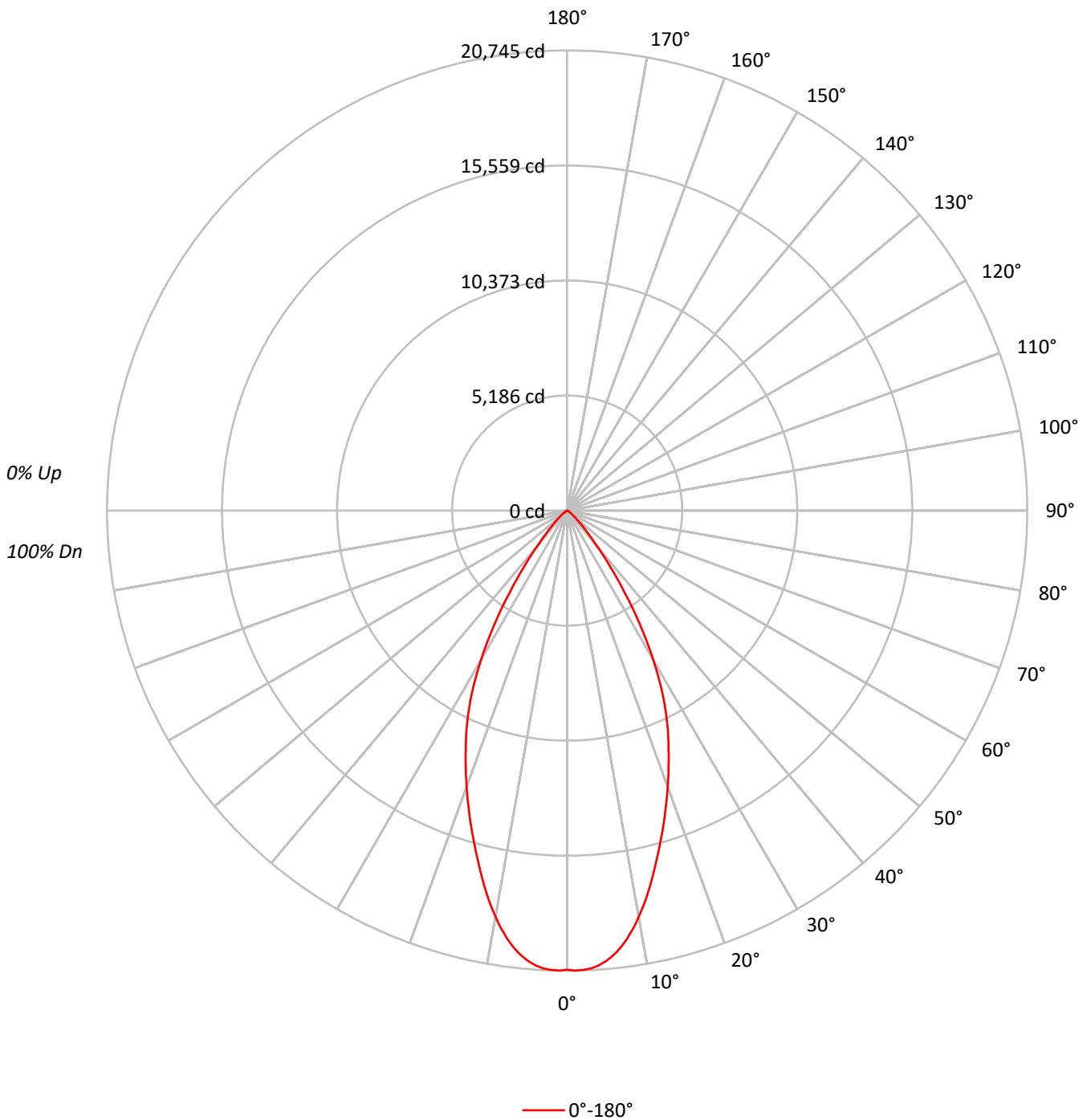
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	638429
5°	630588
10°	582378
15°	507820
20°	434997
25°	364119
30°	277017
35°	171721
40°	84718
45°	40321
50°	19606
55°	9613
60°	5988
65°	4101
70°	2299
75°	1823
80°	1811
85°	1804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1887.9	12.5
10°-20°	4432.3	29.4
20°-30°	4844.3	32.1
30°-40°	2882.8	19.1
40°-50°	790.7	5.2
50°-60°	179.1	1.2
60°-70°	55.3	0.4
70°-80°	16.8	0.1
80°-90°	5.6	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11164.6	74.0
0°-40°	14047.4	93.1
0°-60°	15017.3	99.5
0°-90°	15095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15095.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20704	
5°	20372	###
15°	15907	4432
25°	10702	4844
35°	4562	2883
45°	925	791
55°	179	179
65°	56	55
75°	15	17
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	20703.8
1°	20744.6
2°	20719.1
3°	20668.0
4°	20550.5
5°	20371.7
6°	20141.9
7°	19835.4
8°	19477.8
9°	19064.0
10°	18599.2
11°	18103.7
12°	17572.4
13°	17025.8
14°	16458.8
15°	15907.1
16°	15365.6
17°	14834.4
18°	14303.1
19°	13771.9
20°	13255.9
22.5°	11958.4
25°	10701.8
27.5°	9317.5
30°	7779.9
32.5°	6129.9
35°	4561.7
37.5°	3172.2
40°	2104.6
42.5°	1379.2
45°	924.6
47.5°	613.0
50°	408.7
52.5°	250.3
55°	178.8
57.5°	127.7
60°	97.1
62.5°	71.5
65°	56.2
67.5°	35.8
70°	25.5
72.5°	20.4
75°	15.3
77.5°	10.2
80°	10.2



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	5.1
85°	5.1
87.5°	5.1
90°	0.0

(END OF REPORT)